

ANALOG SYNC GENERATOR 812-OP/G





For Future Generations

The SPG-812 analog test set (812AT or OP/G) is an important element of the GenFlex family of products. The SPG-812 analog test set module allows the user to select from sixteen (16) different video test patterns by a front panel switch or through a remote control unit, the SPG-812TRC. These patterns are produced in any one of four (4) possible formats:

- 1. Composite video plus a Y/C pair.
- 2. SMPTE Component video: Y-Pr-Pb.
- 3. Red, Green, and Blue. (RGB).
- 4. Green + Sync, Blue, and Red.

All patterns are produced at 10-bit resolution and use high-performance hybrid post-filters with integral output amplifiers. Both NTSC and PAL video standards are supported.

When genlocking to incoming video, the SPG-812 chassis will have either an analog (812AG or OP/C) or a digital genlock module (812DG or OP/D) installed in the bottom slot next to the power supply The Genlock module places the required timing pulses on the motherboard buss to allow each subsequent module to lock to a single reference. The analog test set offers "infinite window" timing of horizontal and vertical as well as 360° subcarrier phasing. Timing information is stored in battery-backup RAM within the unit's onboard microcontroller.

The analog test set module may be installed in any slot within the SPG-812 chassis except for the slot dedicated to the audio module. If the 812AT is installed in the "Genlock Module or Master" slot, it will serve as the master timebase for all other modules in the chassis, and the overall unit would have no genlocking capability. The SPG-812 analog test set uses a single 2-bit mechanical encoder to control all module functions including system timing and pattern selection. An eight-character alpha-numeric display provides a menu of options for each module parameter.

The 812-OP/G is the plug-in module that provides 16 analog test signals. The test signals are:

- 1)100% color bars
- 2) 75% color bars
- 3) SMPTE color bars
- 4) 5-Step modulated stairstep
- 5) 5-step un-modulated stairstep
- 6) modulated ramp
- 7) un-modulated ramp
- 8) 2T/12.5T pulse & bar
- 9) field square wave
- 10) SDI pathological pattern
- 11) 50% multiburst
- 12), 100% line sweep
- 13) red field
- 14) shallow ramp
- 15) gray
- 16) black.

The PCO-818 automatic pulse change-over modules operate as independent or synchronized operation. Two PCO-818 change-over chassis may be interlinked to cause all modules to switch should a failure occur in the master generator.

812-OP/G ANALOG TEST GENERATOR

SPECIFICATIONS

| ANALOG VIDEO OUTPUTS: |
|--|
| Formats: Composite video and S-video (Y/C): |
| Component analog video (SMPTE Y, Pb, Pr): |
| Red, Green, Blue (RGB): |
| Red, Green + Sync, Blue (RGsB): |
| Performance |
| Video Standard: NTSC/PAL Selectable |
| Connector: |
| Signal-to-Noise Ratio: -70dB, A Weighted |
| Output Return Loss: -40dB@ 3.5MHz |
| Differential Phase: |
| Differential Gain: |
| Luminance Rise Time: |
| Group Delay: |
| Frequency Response: 0.1dB to 5.5MHz |
| Generator Bit Resolution: |
| Generator Sample Rate: |
| |
| PHASING CONTROLS: |
| Horizontal Phasing Infinite Window Resolution 37nS/ Increment Vertical Phasing Infinite Window Resolution 1 line or 63.5 uS/ Increment |
| REFERENCE INPUTS: |
| Signal Type Horizontal Blanking ,Vertical Blanking, Field Identification |
| ENVIRONMENTAL: |
| Temperature |
| MECHANICAL: |
| Length |
| FRONT PANEL LED INDICATORS: |
| Power |

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